

ABSTRACT

In a method and a circuit for timing pulse generation, a frame pulse of a corresponding system is masked when an alarm signal of either a working system or a protection system is received, a monitoring window which indicates an absorbable range of delay time difference between the frame pulses is generated upon an arrival of the frame pulse of the system selected by a switching signal, when the alarm signal of a system not selected is generated upon selection of the switching signal. Alternatively, a request signal for regenerating the monitoring window which indicates an absorbable range of delay time difference between the frame pulses is provided upon an arrival of the frame pulse of the system selected by the switching signal, when a slip signal is generated upon selection of the switching signal.

The monitoring window is generated around the frame pulse selected by the switching signal when the monitoring window generation request signal is received, a read timing pulse common to memories of both systems is generated at a predetermined timing position, and the monitoring window is regenerated when the selected frame pulse deviates from the monitoring window. Alternatively, a correction signal including a number and a direction of bits when a reference timing pulse not selected deviates from the monitoring window is generated to be transmitted, the correction signal is extracted from a main signal received, and a position of the reference timing pulse of the protection system is corrected based on the correction signal, when the protection system is presently selected.